

Hendrikson

B A S T L

Hendrikson is a guitar/ instrument amplifier and an interface for external effects processors such as stomp boxes. The most unique feature is the mix output which is a CV controllable crossfader between the signal that goes to the Output and the signal at the Input. This means that when used with an external effects processor, this gives CV control of one of the most important parameters: the Dry / Wet Mix. This is especially interesting when used with fuzz or distortion effects for waveshaping basic waveforms.

When Hendrikson is used just as a guitar / instrument amplifier the mix out is in fact a VCA after the gain stage, so you can instantly create tremolo effects by plugging CV to the MIX CV input.

Another great application of Hendrikson is a CV controllable feedback loop of an external effects chain. Simply route the signal from Mix Output back to the Output and listen what happens when the signal comes back at the Input.

instruction

1

The Input amplifier section takes the signal from the 6.3mm TR Jack connector, amplifies it and sends it to the output. The amplification is set by the INPUT GAIN knob and goes from 0-100x amplification.

A

Maximum Input amplification can be raised to 200x by connecting this jumper. Be aware that at such a high amplification noise might appear.

B

The Input impedance of the 6.3mm TR Jack connector is by default 10M ohm (suitable for electric guitar). It can be lowered to 1M ohm (suitable for buffered stompboxes or line signal) or 2K ohm (suitable for microphone or line signal) by connecting these jumpers. In most of the situations you would use the default settings. You have to adjust the impedance mainly when having problems with noise level or harmonic distortion.

2

There is a clipping indication of the amplified signal when reaching a threshold of 5V which is a standard eurotech signal level. This indication does not mean the signal is overdriving in this module (it can go up to 10.5V without overdriving). However it might overdrive on the input of other modules.

3

The Output section takes signals with a modular volume level on the modular jack input and de-amplifies (attenuates) them to line or guitar signal levels at the 6.3mm TR Jack. The deamplification factor is set by the Output Volume knob and is 0-1x.

C

The output impedance on the 6.3mm TR jack is by default 10k (suitable for guitar signals) but can be set to 1k (better for line signals) by connecting this jumper.

D

The Output is AC coupled by default. If you want to change it to DC coupled, you can close this jumper. This can be useful when outputting slow CV signals or when trying to achieve asymmetric distortion in a distortion box by adding DC offset to the signal. Be aware that introducing DC offset to the signal might be problematic for some devices.

E

The output clipping Led indicates potential clipping on the Guitar or Line level. This does not mean it is clipping at the receiving device or at this module. It is more an indication that it might be clipping somewhere in the signal chain.

F

The Mix Output is the output of the voltage controllable crossfader between the Output and Input signal. If Hendrikson is used for connecting external effects processors or stompboxes at this output you would have a DRY/WET mixed signal which can be controlled by CV

G

Mix CV with the MIX knob is used to set the balance between the Output and Input signal at the MIX OUT output. The MIX knob is a CV offset Voltage (0-5V) and voltage at the Mix CV input is simply added to that offset. If the MIX Knob is fully CCW and there is 0V at the MIX CV Input it means that only the Output signal is at the MIX Output. 2.5V means it is evenly balanced and with the Input Signal and 5V it means that only the input signal is at the MIX Output.

This can be used for a voltage controllable DRY/WET mix with external effects, or it can be used simply as a VCA, amplifying the Input signal with nothing plugged in at the Output signal.



features

- 5HP
- Output Level knob sets the buffered attenuation of the output
- Adjust the output signal to guitar or line level with help of Clipping Leds
- Input Gain knob on the input with modular level indication (5V peak to peak)
- Voltage controlled crossfader between the output and input signal
- Mix KNOB sets the offset and MIX CV adds to set the crossfade at the MIX OUT
- 6.3 mm (1/4 inch) Neutrik connectors for Output and Input
- Jumper adjustable input impedance (10M, 1M or 2K)
- Jumper adjustable output impedance (10k or 1K)
- Jumper selectable maximum input gain (100x or 200x)
- Jumper selectable AC or DC coupled output



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Connecting module to your system

technical details

- 5HP width
- PTC fuse and diode protected 10pin power connector
- 45mm deep
- current consumption: +12V: <40mA, -12V: <35 mA

Before connecting the ribbon cable to this module disconnect your system from power !



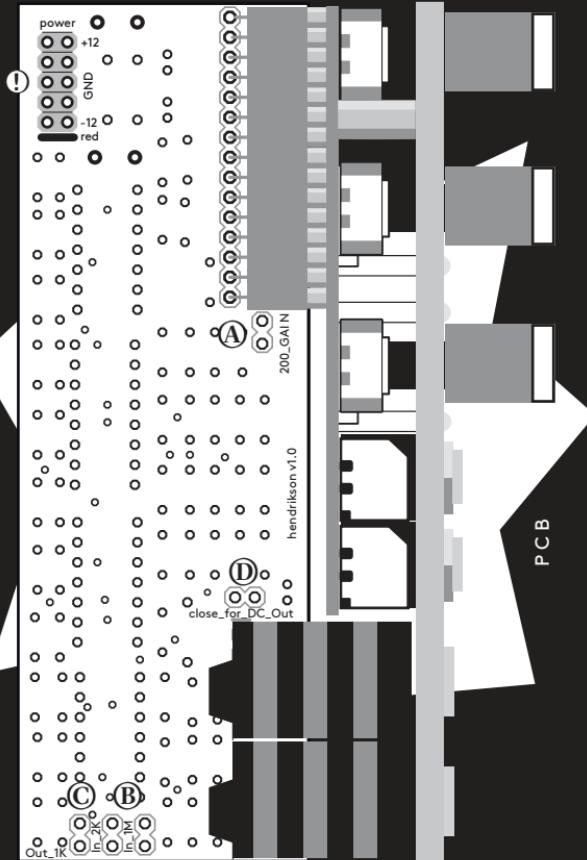
Double check the polarity of the ribbon cable and that it is not shifted in any direction. The red cable should be attached to the -12V rail, both on the module and on the bus board side!

please make sure of the following

- you have a standard pinout eurorack bus board
- you have +12 and -12 power rails on that bus board
- the power rails are not overloaded

Although we put protection circuits in the device, we do not take any responsibility for damages caused by wrong power supply connection. After you connected everything, double checked it and closed your system so no power lines can be touched by your hand, turn on your system and test the module.

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Take it Carefully